

ECOLOGY AND ENVIRONMENT, INC.  
FIELD INVESTIGATION TEAM  
SITE SAFETY PLAN

RS-8303-01B  
IL-0197-04



A. GENERAL INFORMATION

SITE: Lake Calumet Quad TDD NO: RS-8303-01B

LOCATION: 810 E. 124th St. / 12400 S. Cottage Grove, Chi., IL, Cook County  
WSTS NO: IL 0197

PLAN PREPARED BY: Cynthia Pugh / Tom Gladen DATE: 4/7/86

APPROVED BY: MD [Signature] DATE: 5/13/86

OBJECTIVE (including description of work to be performed): To perform an inspection at the above mentioned site to gather information to complete the Site Inspection Report and HRS.

- NO SAMPLING -, WILL ONLY TRY TO DETERMINE PROPERTY LINES, WILL NOT CROSS SITE IF POSSIBLE, CONSTANT MONITORING.

PROPOSED DATE OF INVESTIGATION: 5/27/86

BACKGROUND REVIEW: Complete:                      Preliminary: X  
DOCUMENTATION SUMMARY: OVERALL HAZARD: Serious: X Moderate:                       
Low:                      Unknown:                     

B. SITE/WASTE CHARACTERISTICS

WASTE TYPE(S): Liquid X Solid                      Sludge X Gas                       
CHARACTERISTIC(S): Corrosive                      Ignitable                      Radioactive                       
Volatile X Toxic X Reactive                      Unknown X Other (Name) X

\* Carcinogenic  
\* Flammable  
\* Persistent

FACILITY DESCRIPTION: Site was allegedly used for "midnight dumping" by unauthorized personnel. A grain elevator was formerly in operation on-site.

Principal Disposal Method (type and location): Waste disposal occurred in elevator basement and allegedly occurred underground and possibly on soil surface

Unusual Features (dike integrity, power lines, terrain, etc.): US Scrap (2 1/2 mi) site located near-by; MSD property adjacent to site

Status: (active, inactive, unknown) UNKNOWN

History: (Worker or non-worker injury; complaints from public; previous agency action): The Site is also known as "No Name," Garvey Elevator, and Penn Central. IEPA & MSD Inspections have occurred on-site from 1-1-78 to 12-11-80 with a total of 23 trips to the site. The City of Chicago and the MSD noted waste in drums and grain elevator in 1974 on-site. Some clean-up occurred here in 1980. The enforcement method for clean-up has been altered several times, and the site has allegedly been included to be filed against the owner of US Scrap.

**C. HAZARD EVALUATION**

(Use Hazard Evaluation of Chemicals sheets for specific or representative chemicals present.): The site is located at 12400 S. Cottage Grove. US Scrap is located at 119th St. Cottage Grove. Hexane liquid wastes were allegedly disposed of at the Lake Calumet Quad site in the basement of a grain elevator. This waste was discovered in the summer of 1980. The liquid waste was pumped out. Approximately 300,000 gallons were removed in the summer of 1980 and then 100,000 gallons were removed later that summer. This waste was tested and was found to contain CN, Cd, Cr, Sulfide, Cu, Hg, Ni, Pb, Zn, and PCB. When the liquid waste was removed, a sludge material remained. In order to absorb the liquid from the sludge, 200,000 lbs. of dolomite limestone were pumped into the

**D. SITE SAFETY WORK PLAN**

PERIMETER ESTABLISHMENT: Map/Sketch Attached No Site Secured? No  
 Perimeter Identified? Unknown Zone(s) of Contamination Identified? No  
Assume entire site area to be contaminated

(See attached sheet)

**PERSONAL PROTECTION**

Level of Protection: A      B      C X D     

Modifications: Level C with possible upgrade to Level D should  
Surveillance equipment warrant. AREA IS COVERED AND WEEDS AND GRASS NOW GROWING OVER SITE, WILL NOT CROSS OVER SITE.

Surveillance Equipment and Materials: Rad-mini: any reading above background;  
abandon site and contact RSC.

O2 meter: Levels < 19.5% or > 25%: abandon site and contact RSC

Explosimeter: > 30% LEL: abandon site and contact RSC

HNU: Action Levels:	Level D:	0 ppm	Above bkgnd.	} Abandon Site and Contact RSC
	Level C:	1-5 ppm	" "	
	Level B:	6-500 ppm	" "	
	Level A:	> 500 ppm	" "	

Drager Pump: HCN, H<sub>2</sub>SO<sub>4</sub>, As<sub>2</sub>O<sub>3</sub> } any color change, Abandon site and Contact RSC

RSC 2/83  
 2+ levels exceed 1 ppm

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C. Hazard Evaluation (Continued)

The sludge was allegedly removed according to an IEPA Report (8-30-82).

According to a Soil Testing Services, Inc. (STS) Report dated 6-5-81, the elevator was allegedly demolished. A mound of ground surface ~4-6' above grade was observed in 8/80. This may have been a result of redistributing surface debris from the demolished elevator. A soil cap covering was observed here in 5/81. Also, according to STS, waste disposal activities (including the liquid disposal in the elevator) were occurring on-site allegedly in the early 1970's and possibly in the late 1960's.

An IEPA Report (8-30-82) indicated that concrete storage tanks were noted on-site and allegedly contained liquid waste with Cr, Pb, Zn, Cu, and Cd. Also, ~100 drums containing waste were noted on-site. A drainage ditch also existed and allegedly contained sludge with Cu, Cr, Pb, and Ni. Lab tests showed that the drums contained polymers, metal sludges, lab wastes, oils, and paint and ink wastes. The drums were allegedly removed along with sludge from the drainage ditch with Penn Central being responsible for the clean-up.

Two monitoring wells were installed on-site, and test borings and pits have been excavated. The results of testing and sampling showed the area to be "severely

contaminated by organic and inorganic compounds." Strong chemical and paint-like odors were noted in soil borings. Significant organic and inorganic contamination allegedly exists in the shallow ground water. Aliphatic hydrocarbons, toluene, xylene, and benzene were detected in the test pits according to 1981 sample results.

According to STS, tanks and tanker trucks\* may have been buried on-site, however, these were not discovered during the excavations, so this could not be confirmed. Reports from several people indicate that oily waste was allegedly disposed of in holes in the ground which were then covered over. The basement structure to the grain elevator was apparently not destroyed.

A 103(c) notice which was filed for the site stated that "all disposal of waste was unauthorized by Penn Central and is believed to have occurred during a time when the premises were subject to lease agreements". Penn Central has not occupied the site for ~15-20 years. Wastes may have been disposed of on other parts of the site by unknown people (midnight dumping).

\* It was also noted in an STS Report dated 8-7-80 that a sludge pit on-site, up to 30 feet deep, "may contain buried metal containers and possibly a buried tank truck."

TO: \_\_\_\_\_ DATE: 30 Aug 1980

FROM: \_\_\_\_\_  Information only

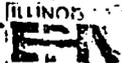
SUBJECT: COOK Co 03160022 CHICAGO / US SCRAP  Response requested

The site referred to as U.S. SCRAP is located at 119<sup>th</sup> St & Cottage Grove in Chicago. The problem of waste on site in drums AND in grain elevators, located on Penn Central property was noted by City of Chicago & the Metropolitan Sanitary District in 1974. Attempts to obtain voluntary clean-up of the site were unsuccessful which resulted in enforcement action in early 1975. A court order was subsequently issued for the cleanup of the site.

IL EPA in JUNE 1980 received information that a possible hazardous waste site existed at the same location. Subsequent investigation revealed that the grain elevator contained liquid sulfide wastes, and concrete storage tanks contained liquid waste containing Chromium, Lead, Zinc, Cyanide and Cadmium. Approximately 100 drums containing waste were also on site, and a drainage ditch contained sludge containing Cyanide, Chromium, Lead, & Nickel. Lab test showed that the drums contained the following: polymers, metal sludges, lab wastes, oils, paint & ink wastes.

The sulfide waste was removed during the period of 24-27, 1980 under IL EPA monitoring, Penn Central was responsible for the cleanup. During this period 325,000 gallons of waste were removed to an approved landfill. The remaining sludge was subsequently removed. Resulting from efforts by MSD AND IEPA further cleanup was effected including removal of drums & sludge from the drainage ditch. Between 1-1-78 & 12-11-80, twenty-three trips were made to the site, samples were obtained on two occasions.

The Agency is continuing its monitoring of the site through use of monitor wells installed on site. In addition, Soil Testing Services, was contracted to provide an evaluation of the potential contamination at this site. The site was subject to test borings and test pit excavation, the results of which were issued in



TO: \_\_\_\_\_ DATE: \_\_\_\_\_

FROM: \_\_\_\_\_  Information only

SUBJECT: US Scrap - Continued  Response requested

April, 1982. The results showed that the area is "severely contaminated by organic & inorganic components. Furthermore the groundwater of the area is contaminated generally with organic compounds most notably xylene and toluene.

The IL EPA and the IL. Attorney General's Office continues to pursue the owners in order to effect the further cleanup of this site. The method of enforcement has been altered several times and the site has been included with several other cases to be filed against the US Scrap owner Mr. S. Mantell.

**DECONTAMINATION PROCEDURES:**

All potentially contaminated equipment will be washed and rinsed well. All wash and rinse water will be left on-site. All disposable clothing will be double-bagged and left on-site. Prior permission will be obtained.

**Special Equipment, Facilities, or Procedures:**

None

**SITE ENTRY PROCEDURES:**

Determine all exits if site is fenced. Permission to enter site will be obtained from owner/operator prior to site entry. Observe "buddy system" at all times. Try to stay upwind as much as possible.

Team Member

TOM GLADAN  
RURT SIMS

Responsibility

Team Leader  
Site Safety Officer

**WORK LIMITATIONS (Time of day, etc.):**

Work will be restricted to daylight hours only. Symptoms of heat/cold stress will be monitored.

**INVESTIGATION-DERIVED MATERIAL DISPOSAL:**

All investigation-derived material and disposable clothing will be double-bagged, labelled as potentially hazardous, and left on-site. Prior permission will be obtained.

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NON-RESPONSIVE